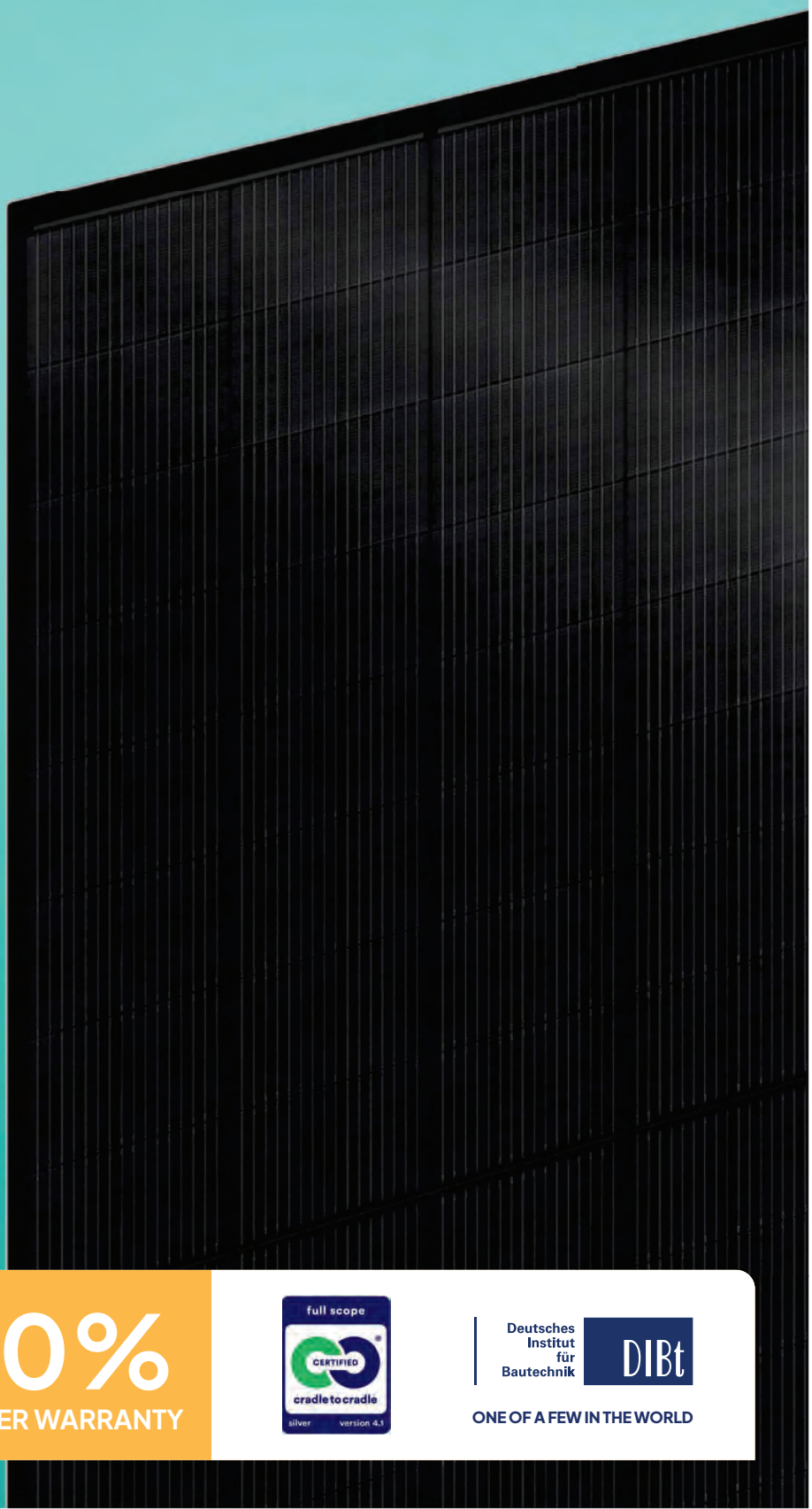
Rev. 20260717

SoliTek

SOLID series

Black Frameless



455 W

Made in the EU

3.2+3.2 mm glass

- NH_3 — Ammonia resistance
- 40 mm — Hail resistance class 4
- 98 % — 98 % recyclable
- GL 35 % — 35% of recycled glass content
- Salt mist resistance

30 YEAR Product & Efficiency Guarantee

90% POWER WARRANTY

full scope CERTIFIED cradle to cradle silver version 4.1

Deutsches Institut für Bautechnik DIBt

ONE OF A FEW IN THE WORLD

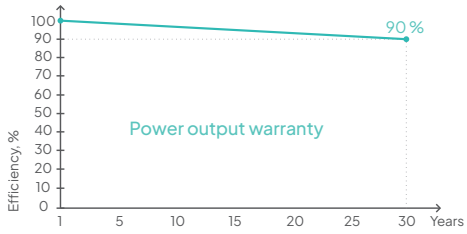
Electrical data	STC* | BNPI**
Maximum power (W)	455 | 500
Cell technology	N type, TOPCon - bifacial
Open circuit voltage (V_{OC}/V)	35,43 | 35,43
Short circuit current (I_{SC}/A)	15,97 | 17,57
Max power voltage (Vmpp/V)	29,71
Max power current (Impp/A)	15,31
Module efficiency (n)	22,57 %
Max system voltage (V)	1500
Max current (A)	30
Power tolerance	0/+5W

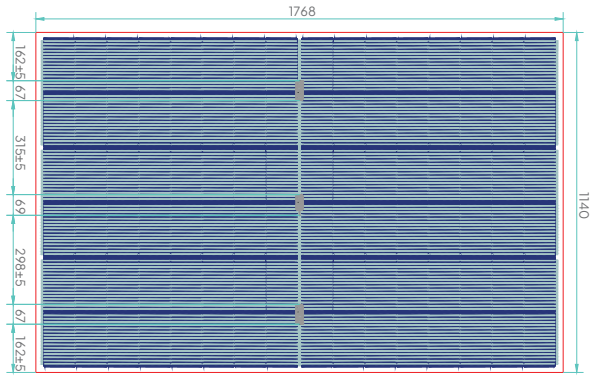
*Under standard test conditions (STC) of irradiance of 1000W/sq.m., spectrum AM 1.5 and cell temperature of 25°C. Flash testing measurment accuracy of +/-5%.
** BNPI: front 1000W/m2, rear 135W/m2

Temperature ratings	
Current temperature coefficient (α)	+0,0371% / °C
Voltage temperature coefficient (β)	-0,2173% / °C
Power temperature coefficient (δ)	-0,2791% / °C
Nominal operating module temperature	46 °C

Mechanical data	
Dimensions (LxWxH) (mm)	1768x1140x7.2
Dimensions with edge sealing (LxWxH) (mm)	1772±2x1144±2x7.2
Weight (kg)	33
Front glass (mm)	3.2, structured, low reflection, with AR coating, TVG
Back glass (mm)	3.2, black, TVG
Cell Size (mm)	182,2x105
Busbars	16
Cell configuration	6x16
Frame	Frameless
Rated operating altitude (m)	Up to 2000
Operating temperature (°C)	-40 ÷ +85
Maximum test load (wind/snow) (Pa)	5400/10500
Junction box / IP class	Split junction box / IP68
Cable cross section size (mm^2)	4
Cable length (m)	1,2
Bypass diodes	3
Connector	MC4-EVO2

Warranty	
30 years product warranty	
30 years efficiency warranty	
First year degradation (%)	1
Annual degradation (%)	0,31
Power in year 30 (%)	90

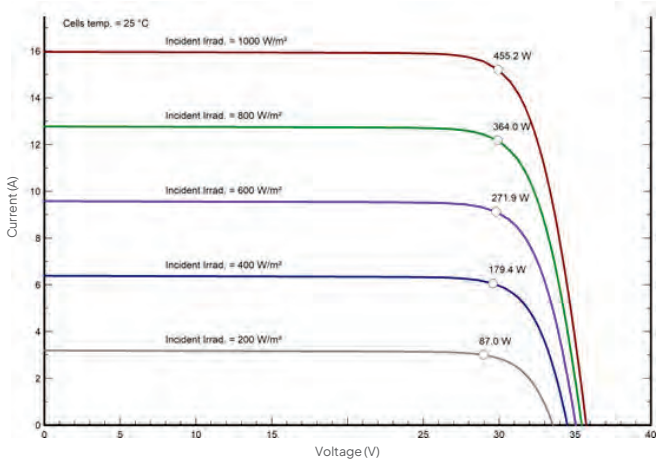




Certifications	
IEC 61215:2021; IEC 61730:2023	
C2C Certified®***	Full Scope, Silver level, Version 4.1
abZ/aBG	National technical approval / General construction permit
EN 13501-1:2019-05	B-s1, d2
IEC 62716:2013	Ammonia corrosion testing
IEC 61701:2020	Salt mist corrosion testing
IEC 61215-2:2021	40 mm hailstone - Hail resistance class 4 (HW4)
ISO 9001:2015	Quality management systems
ISO 14001:2015	Environmental management systems
ISO 45001:2018	Occupational health and safety
SundaHus	A level assessment
Produced using 100% renewable energy	
Membership at Svensk Solenergi	

Product assessed in SundaHus Material Data
Svensk Solenergi

Performance at Low Irradiance



Packing information	
Modules per pallet (pcs)	25
Dimensions of a pallet (LxWxH) (mm)	1899x1220x1100
Weight of a pallet (gross) (kg)	912
Pallets per 13,6 m truck (pcs)	22
Modules per 13,6 m truck (pcs)	550

*** - the certification scope is limited to the laminate and does not include the frames

SoliTek

This datasheet is not legally binding. The manufacturer reserves the right to make changes to product specifications and / or product features without prior notice. The most recent versions of all documents (T&C's, datasheets, warranties and installation manuals) can always be found on our website at www.solitek.eu

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